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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/695,969	10/29/2003		Hiroaki Ohkubo	NECF 20.702	7995		
26304	7590	09/28/2005		EXAM	EXAMINER		
KATTEN N	MUCHIN	ROSENMAN LI	FARAHANI, DANA				
575 MADISON AVENUE NEW YORK, NY 10022-2585				ART UNIT	PAPER NUMBER		
NEW TORK	., 141 10	022-2303		2891			

DATE MAILED: 09/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			4K			
	Application No.	Applicant(s)				
	10/695,969	OHKUBO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Dana Farahani	2891				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by s Any reply received by the Office later than three months after the nearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNION R 1.136(a). In no event, however, may a control of the c	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) \boxtimes Responsive to communication(s) filed on $\underline{0}$	77 July 2005.					
2a) ☐ This action is FINAL . 2b) ☑	This action is FINAL. 2b)⊠ This action is non-final.					
3) Since this application is in condition for all						
closed in accordance with the practice und	ler <i>Ex parte Quayle</i> , 1935 C. <u>C</u>). 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-3 and 5 is/are pending in the ap	pplication.					
4a) Of the above claim(s) is/are with	drawn from consideration.	·				
5) Claim(s) is/are allowed.						
6) Claim(s) 1-3 and 5 is/are rejected.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction are	nd/or election requirement					
· · · · · · · · · · · · · · · · · · ·	Taror crocker requirement					
Application Papers						
9) The specification is objected to by the Exar		·				
10) The drawing(s) filed on is/are: a)						
Applicant may not request that any objection to						
Replacement drawing sheet(s) including the co	•					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for form a) All b) Some * c) None of:		§ 119(a)-(d) or (f).				
 Certified copies of the priority docum Certified copies of the priority docum 		Application No.				
3. Copies of the certified copies of the						
application from the International Bu						
* See the attached detailed Office action for a	list of the certified copies not	received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) 🗍 Interview	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948	Paper No(s)/Mail Date Informal Patent Application (PTO-152)				
 Information Disclosure Statement(s) (PTO-1449 or PTO/St Paper No(s)/Mail Date 	6) Other:	—				

Application/Control Number: 10/695,969 Page 2

Art Unit: 2891

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Hirabayashi (US Patent 5,889,314).

Hirabayashi discloses in figure 3A, a semiconductor integrated circuit comprising: a silicon substrate 20 (see col. 1, line 61);

a silicon epitaxial layer (see col. 1, line 63) that is formed on the surface of said silicon substrate and has a lower resistivity than the resistivity of said silicon substrate (note that it is p type, while the substrate is p+);

first and second circuit sections, the first being a digital circuit and the second an analog circuit, at the left and the right side, respectively, of the dielectric region 16 shown in the figure, are formed in said silicon layer; and

a device isolation region, the dielectric region shown as region 16 in the figure, projecting from said silicon substrate up to a surface of each said first and second circuit sections between said first and second circuit sections.

Application/Control Number: 10/695,969 Page 3

Art Unit: 2891

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hirabayashi.

Hirabayashi substantially discloses the limitations in the claims, as discussed above, except for expressly disclosing the resistivity of the silicon substrate is between 20/50 and 100 times the resistivity of the silicon epitaxial layer. However, it would have been obvious to one of ordinary skill in the art at the time of the invention to make the necessary adjustments in regard to the resistivity of those layers in order to adjust the characteristics of the device. See *In re Woodruff*. 919 F.2d 1575, 1578, 16 USPQ2d 1934, 1936 (Fed. Cir. 1990), for the proposition that when the specification contains no disclosure of either the critical nature of the claimed dimensions of any unexpected results arising therefrom, the Applicant must show that the chosen dimensions are critical.

Response to Arguments

5. Applicant's arguments with respect to the previously rejected claims have been considered but are moot in view of the new grounds of rejection.

Application/Control Number: 10/695,969 Page 4

Art Unit: 2891

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dana Farahani whose telephone number is (571)272-1706. The examiner can normally be reached on M-F 9:00AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Baumeister can be reached on (571)272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D. Farahani

HOAI' PHAM PRIMARY EXAMINER